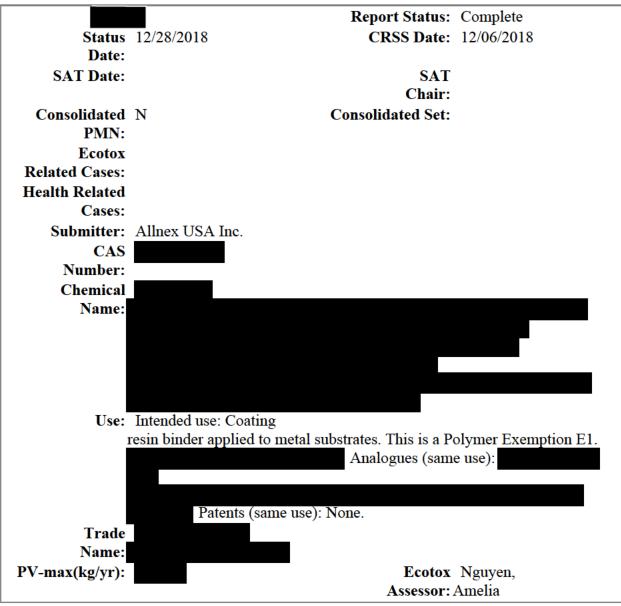
Ecotox Report for Case # P-19-0007

General



Fate Summary

Statement

```
Fate P-19-0007
Summary FATE:
Statement: MW = with % < 500 and % < 1000
Solid
S = Negl.
VP < 1.0E-6 torr at 25 °C (E)
BP > 400 °C (E)
```

H <
1.00E-8 (E)

POTW removal (%) = 90 via sorption

Time for complete

ultimate aerobic biodeg > mo

Sorption to soils/sediments =

v.strong

PBT Potential: P3B1

FATE: Migration to ground water =

negl

Physical Chemical

Information

Molecular Weight: Wt% < 500: Wt% < 1000: Physical Solid (est.) **State - Neat: Melting Melting Point:** Point (est): MP **(EPI):** Vapor Pressure: Vapor Pressure (est): <0.000001 VP (EPI): Water Solubility: Water Solubility (est): <0.000001 **Water Solubility (EPI):** Henry's Law:: Log Koc: Log Koc (EPI): Log Log Kow: Kow (EPI): Log **Kow Comment:**

SAT

Concern Level

```
Ecotox 1
Rating (1):
Ecotox
Rating Comment
(1):
Ecotox Rating
(2):
```

Ecotox
Rating Comment
(2):
Ecotox Route of No releases to
Exposure: water

Ecotox Comments

Exposure N
Based Review
(Eco):
Ecotox
Comments:
Exposure Based
Testing:

PBT Ratings

Persistence	Bioaccumulation	Toxicity	Comments
3	1		

Eco-Toxicity Comment:

Fate Ratings

Removal 9 in WWT/POTW (Overall): Condition			Doting I	Description		Comment
Condition	Rating Values	1	e	-	4	Comment
	values	1	2	3	4	
Fish BCF:						
Log Fish BCF:						
WWT/POTW	3	Low	Moderate	Strong	V. Strong	
Sorption:				_		
WWT/POTW	4	Extensive	Moderate	Low	Negligible	
Stripping:						
Biodegradation	4	Unknown	High	Moderate	Negligible	
Removal:						
Biodegradation		Unknown	Complete	Partial		
Destruction:						
Aerobic Biodeg	4	<=	Weeks	Months	> Months	
Ult:		Days				
Aerobic Biodeg		<=	Weeks	Months	> Months	
Prim:		Days				

Removal 9 in WWT/POTW (Overall):	0							
Condition	Rating	Rating Description Commo						
	Values	1	2	3	4			
Anaerobic	4	<=	Weeks	Months	> Months			
Biodeg Ult:		Days						
Anaerobic		<=	Weeks	Months	> Months			
Biodeg Prim:		Days						
Hydrolysis (t1/2		<=	Hours	Days	>= Months			
at pH		Minutes						
7,25C) A:				_				
Hydrolysis (t1/2		<=	Hours	Days	>= Months			
at pH		Minutes						
7,25C) B:	1	3.7	Charac	N (- 1 4 -	T			
Sorption to Soils/Sediments:	1	V. Strong	Strong	Moderate	Low			
Migration to	1	Negligible	Slow	Moderate	Rapid			
Ground Water:	1	Negligible	Slow	Moderate	Каріц			
Photolysis A,		Negligible	Slow	Moderate	Rapid			
Direct:		regugiote	SIOW	Wioderate	Rapid			
Photolysis B,		Negligible	Slow	Moderate	Rapid			
Indirect:		riegngiere	510 11	Wiederate	тарга			
Atmospheric Ox		Negligible	Slow	Moderate	Rapid			
A, OH:		0-0			1			
Atmospheric Ox		Negligible	Slow	Moderate	Rapid			
В, О3:					•			
Bio Comments:								
Fate Comments:								

Ecotoxicity Values

Test organism	Test Type	Test Endpoint	Predicted	Experimental Comments		
Fish	96-h	LC50	*			
Daphnid	48 -h	LC50	*			
Green Algae	96 - h	EC50	*			
Fish	-	Chronic Value	*			
Daphnid	-	Chronic Value	*			
Green Algae	-	Chronic Value	*			
Ecotox Value Predictions are based on SARs for polyanionic Comments: polymers (insoluble); MW with % <500 and % <1000; solid (est.) with an unknown MP (P); S = Negligible (P); effective						

Test Test Type Test Endpoint Predicted Experimental Comments organism concentrations based on % active ingredients and mean measured concentrations; hardness <150 mg/L as CaCO3; and TOC <2.0 mg/L.

Ecotox Factors

Factors	Most Sensitive Endpoint	Assessment Factor	CoC	Comment
Acute Aquatic (ppb):	*			* = No effects at saturation for acute fish, daphnid, and green algae. Because hazards are not expected up to the water solubility limit, acute concentration of concern was not identified.
Chronic Aquatic (ppb):	*			* = No effects at saturation for acute fish, daphnid, and green algae. Because hazards are not expected up to the water solubility limit, chronic concentration of concern was not identified.

Factors	Values	Comments
SARs:	Polyanionic Polymers	
SAR	Polymer-	
Class:	anionic- -insoluble	
TSCA NCC		
Category?	Polyanionic Polymers	
	(Momomers)	

Recommended Potentially Useful

Testing: Information: None **Ecotox** Environmental

Factors Hazard: Environmental hazard is relevant to whether a new chemical Comments: substance is likely to present unreasonable risk because the significance of the risk is dependent upon both the hazard (or toxicity) of the chemical substance and the extent of exposure to the substance. EPA determined environmental hazard for this new chemical substance based on

SAR predictions for anionic polymers (special class within ECOSAR v.2.0). This substance falls within the TSCA New Chemicals Category of Polyanionic

Polymers (Monomers). Acute and chronic toxicity values estimated for fish, aquatic invertebrates, and algae are all no effects at saturation. These toxicity values indicate that the new chemical substance is expected to have low environmental hazard. Because hazards are not expected up to the water solubility limit, acute and chronic concentrations of concern are not identified.

Environmental Risk: Risks to the environment were evaluated by comparing estimated surface water concentrations with the acute and chronic concentrations of concern. Risks to the environment were not identified due to no releases to water.

Comments/Telephone Log

Artifact	Update/Upload	
	Time	